

STRUCTURE AND METHOD TO ENHANCE FIELD EMISSION IN
FIELD EMITTER DEVICE

Abstract of the Disclosure

A structure and method are provided to inhibit degradation to the electron beam of a field emitter device by coating the field emitter tip with a substance or a compound. The substance or compound acts in the presence of outgassing to inhibit such degradation. In one embodiment, the substance or compound coating the field emitter tip is stable in the presence of outgassing. In another embodiment, the substance or compound decomposes at least one matter in the outgassing. In yet another embodiment, the substance or compound neutralizes at least one matter in the outgassing. In a further embodiment, the substance or compound brings about a catalysis in the presence of outgassing.

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